

# EQUATIONS

## Level 2

Please revise level 1

Negative Pronumerals . e.g.

$$6 - x = 5 \quad \text{Add } x \text{ to both sides then } 6 - x + x = 5 + x$$

i.e.  $6 = 5 + x$  or  $x + 5 = 6$  .....  $x = 1$  as done previously.

Pronumerals on both sides of the equation e.g.

$$2x + 5 = x + 10 \quad \text{Take the lowest from both sides} \quad \text{Then}$$

$$x + 5 = 10 \quad x = 5$$

$$2x + 6 = 12 - x \quad \text{Add } x \text{ to both sides}$$

$$3x + 6 = 12 \quad \text{Then } 3x = 6 \quad x = 2$$

Express answers as fractions e.g.

$$7x + 5 = 2x + 3 \quad \text{Then } 5x = -2 \quad x = -\frac{2}{5}$$

Examples

Practise

a)  $7 - 2a = 3$

b)  $2b - 9 = 3 - b$

c)  $\frac{3c}{4} = -12$

d)  $\frac{3d}{5} = 6$

e)  $3e + 4 = 18 - 4e$

f)  $\frac{5f}{7} = -2$

g)  $11 - 2g = 1 + 3g$

h)  $15 - 4h = 10 + h$

j)  $3j = j - 30$

k)  $2k - 4 = 6 - 3k$

m)  $4m + 6 = 10 = m$

n)  $5n - 11 = 4n - 1$

p)  $\frac{5p}{4} - 3 = \frac{1}{2}$

q)  $\frac{5q}{6} + 4 = 6$

r)  $\frac{1}{r} + 5 = 7$

s)  $6 - 5s = -3 + 3s$

t)  $4t - 4 = -2 + t$

u)  $\frac{6u}{5} = 6 + u$

v)  $\frac{3v}{2} = 12 - v$

w)  $6 - 7w = 4$

x)  $12 + \frac{x}{5} = 15$